



SEQUENCE LISTING

<110> Fit Biotech Oyj

<120> Novel selection system

<130> PD53649US01

<140> US10/531,870

<141>

<160> 29

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 780

<212> DNA

<213> Escherichia coli

<400> 1

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ctaactgacg gcagaatata cccatataag cgacctcttc cagcacgatg gcgttatgca 180
ccgcatcttc ggcatttttg ccccatgcaa acgggccgtg ggaatggacc agaacgcccg 240
gcatttgccg tgcacgata ccctgttttt caaaggtttc tacgatgacg ttaccgggtt 300
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cgtagaaata gtcggcgttg gtggtgccgg ttgctggaat cgactgacct gcctgcgccc 420
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agagcagccg gtgagttggc gtgtcggagg agggcttttt cgtaccttca accacttcac 540
cggtttcgat gctaaccacg accatatcgt cagcggtcac gacgtgttaa tcgacgccgg 600
aaggtttgat cacaaagacg ccgcgctcgc gatcaacggc gctgacgttg ccccatgtga 660
gcgtgaccag gttgtgtttt ggcagcgcca ggttggttcc taatacctgg cgtttgagat 720
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<211> 76

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<213> Artificial Sequence

<220>

<223> Primer

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<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 3
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atgc 64

<210> 4
<211> 81
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 4
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tagcacgaag gagtcaacat g 81

<210> 5
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 5
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<210> 6
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 6
gccagggttt tcccagtcac ga 22

<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 7
gagcggataa caatttcaca cagg 24

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 8
ccaactcacc ggctgctcta tc 22

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 9
aatgccgaag atgcggtgca taac 24

<210> 10
<211> 20
<212> DNA
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<220>
<223> Primer

<400> 10
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<210> 11
<211> 20
<212> DNA
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<220>
<223> Primer

<400> 11
ggttgctgga atcgactgac 20

<210> 12
<211> 66
<212> DNA
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<220>
<223> Primer

<400> 12
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tgcttc 66

<210> 13
<211> 60
<212> DNA
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<220>
<223> Primer

<400> 13
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<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 14
cggcacgaag gagtcaacat 20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 15
tgatagagca gccggtgagt 20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 16
tcagatcctt ggcggcaaga 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 17
tgtaatcgac gccggaaggt 20

<210> 18
<211> 1030
<212> DNA
<213> Artificial Sequence

<220>
<223> 10E2BS-Promoter-RBS-araD-terminator

<400> 18

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ggtagacgat cgaccggcaa cggtagatc cggaccggca acggtacaga tccgaccggc 180
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caaaccttcc ggcgtcgatt acagcgtcat gaccgctgac gatatggtcg tggttagcat 480
cgaaaccggg gaagtgggtg aaggtacgaa aaagccctcc tccgacacgc caactcaccg 540
gctgctctat caggcattcc cctccattgg cggcattgtg catacgact cgcgccacgc 600
caccatctgg gcgcaggcgg gtcagtcgat tccagcaacc ggcaccaccc acgccgacta 660
tttctacggc accattccct gcacccgcaa aatgaccgac gcagaaatca acggcgaata 720
tgagtgggaa accggtaacg tcatcgtaga aacctttgaa aaacagggta tcgatgcagc 780
gcaaatgccc ggcgttctgg tccattccca cggcccgttt gcatggggca aaaatgccga 840
agatgcggtg cataacgcca tcgtgctgga agaggctcgt tatatgggga tattctgccg 900
tcagttagcg ccgcagttac cggatatgca gcaaacgctg ctggataaac actatctgcg 960
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<210> 19

<211> 696

<212> DNA

<213> Escherichia coli

<400> 19

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atcaaacctt ccggcgctga ttacagcgtc atgaccgctg acgatatggt cgtgggttagc 180
atcgaaaccg gtgaagtggg tgaaggtacg aaaaagccct cctccgacac gccaactcac 240
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gccaccatct gggcgaggc gggtcagtcg attccagcaa ccggcaccac ccacgcgcac 360
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tatgagtggg aaaccggtaa cgtcatcgta gaaacctttg aaaaacaggg tatcgatgca 480
gcgcaaatgc ccggcgttct ggtccattcc cacggcccgt ttgcatgggg caaaaatgcc 540
gaagatgcgg tgcataacgc catcgtgctg gaagaggctc cttatatggg gatattctgc 600
cgtcagttag cgccgcagtt accggatatg cagcaaacgc tgctggataa acactatctg 660
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<210> 20

<211> 687

<212> DNA

<213> Escherichia coli

<400> 20

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tttggcgaca ttccgtgtac gcgcggggtta agcgaagaag aggtgcaggg cgagtatgaa 420
ctgaacaccg gcaaagtgat tatcgaaacg ctgggcaacg ccgagccgct gcatacgccg 480
ggaattgtgg tgtatcagca cgggcggttc gcctggggga aagatgctca cgatgcggtg 540
cataacgcgg tggatgatga agaagtggcg aaaatggcgt ggattgcccg cggcattaac 600
ccacaactca atcacatcga cagcttcctg atgaataaac acttcatgcg taaacacggg 660
cctaacgctt attacgggca gaagtag                                     687
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<210> 21
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 21
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gcttc 65

<210> 22
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 22
aaacggctgc ggaattagac cagttatctc ccgaggaagg aaattaattc cggggatccg 60
tcgacc 66

<210> 23
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 23
aaacggctgc ggaattagac c 21

<210> 24
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 24
gccgtacctg attgagatgt ggag 24

<210> 25
<211> 696
<212> DNA
<213> Escherichia coli

<400> 25
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atcaaacctt ccggcgctga gtacgacgtg atgaccgccg acgatatggt ggtggttgag 180
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 tatgaatatc agaccggcga agtgatcatt gaaaccttcg aagaacgtgg caggagtccg 480
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 gccgatgccg tgcataacgc cgtagtactc gaagaatgcg cctatatggg tctattctcg 600
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<210> 26

<211> 67

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 26

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<210> 27

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 27

gcaggaggct ggatttatat gttagagcaa ctgaaagccg acgtggtgta ggctggagct 60
 gcttc 65

<210> 28

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 28

cggcgttaca gcaaggaaca tatc 24

<210> 29

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 29

attgaagcgc gtatgcagga gg 22